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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,889	12/08/2003	Chandrakant Patel	200313274-1	9677

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EXAMINER

DATSKOVSKIY, MICHAEL V

ART UNIT	PAPER NUMBER
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2835

DATE MAILED: 11/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/728,889	Applicant(s) PATEL ET AL.	
	Examiner Michael V. Datskovskiy	Art Unit 2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 13, 19, 20, 23-26 and 28-30 is/are rejected.
- 7) ☐ Claim(s) 8-12, 14-18, 21, 22 and 27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/08/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 10, line 12 there is a citation: "A fan 160", while 160 is a thermally conductive material (see page 11, line 12) .

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-6, 13, 19-20, 23-26 and 28-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Pokharna et al (US Patent 6,795,311).

Pokharna et al teach a docking station 100, 200, 300 or 400, Figs. 1-4, comprising: a housing 110, 210, 310 or 410 operable to receive a portable computer 150; and a liquid-filled hollow structure - cold plate 120, 220, 320 or 420 provided on a portion of the housing, the liquid-filled hollow structure being in thermally conductive relation to the portable computer 150, when the portable computer is docked in the docking station such that heat is transferred from the portable computer to the liquid-filled hollow

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structure, wherein the liquid-filled hollow structure includes a liquid that vaporizes in the evaporator section in response to being heated by the heat transferred from the portable computer and that condenses back to the liquid in the condenser section, wherein the condensed liquid is pumped by a compressor 422 back to the evaporator section, said liquid movement due to an inclined shape of the cold plate is inherently aided by gravity force. Pokharna et al teach furthermore said docking station, wherein the liquid-filled hollow structure comprises an evaporator section operable to receive heat from the portable computer when the portable computer is docked in the docking section; and a condenser section 112, 212, 312 or 412 operable to dissipate the heat received from the portable computer, said docking station further comprising a heat sink 423 connected to the condenser section, the heat sink being operable to dissipate the heat received from the portable computer, and the evaporator section could be provided on an angular surface of the housing such that the condenser section is at a higher than a substantial portion of the evaporator section (see col. 1, lines 14-25). Pokharna et al also teach said evaporator having a size approximately equal to a size of a bottom surface of the portable computer 150.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 7 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pokharna et al.

Pokharna et al teach all the limitations of the claims except said docking station further comprising a heat transferring material provided between the liquid-filled hollow structure and the portable computer. However, Pokharna et al teach such a heat transferring material 170 provided between the liquid-filled hollow structure and the portable computer but belonging to the computer 150. It would have been obvious to one having ordinary skill in the art at the time invention was made to make said heat transferring material as a part of the docking station, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70

Allowable Subject Matter

6. Claims 8-12, 14-18, 21-22 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: The docking station of claim 1 or 23 further comprising a structure biasing the liquid-filled hollow structure towards the portable computer (claims 8-12 and 27); The docking station of claims 2, wherein one or more of the evaporator section and the condenser section includes channels holding the liquid in the hollow liquid-filled structure (claims 15-16); The docking station of claims 5 or 20, wherein the evaporator

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section and the condenser section are connected via at least one heat pipe (claims 17-18 and 21-22).

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Moss et al (US Patent 5,969,939) and Fleck et al (US Patent Application Publication 2004/0130870A1).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Datskovskiy whose telephone number is (571) 272-2040. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael V Datskovskiy
Primary Examiner
Art Unit 2835

11/22/2005